Ultimate Alkali

SAFETY DATA SHEET

1. Identification

Trade Name	**Ultimate Alkali**	
Other means of Identification	None	
Recommended use	ALL PROPER AND LEGAL PURPOSES	
Recommended restrictions	None known	

Manufacturer/Importer/supplier/Distributor Information

Manufacturer

Company Name	**Metro-Chem, Inc.**	
Address	**24 Pennsylvania Avenue** **Kearny, NJ 07032**	
Telephone	**973-589-2800**	
E-mail	**Not available**	
Emergency phone Number	**800-424-9300**	**Chemtrec**

2. Hazard(s) Identification

Physical hazards	Not Classified	
Health hazards	Skin corrosion/irritation	Category 1A
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment long-term hazard	Category 3
OSHA defined hazards	Not Classified	

Label elements



Signal word	**Danger**
Hazard statement	Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention	Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Rinse mouth. DO NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contacts lenses if present and easy to do. Continue rinsing. Immediately call a poison control center/doctor. Wash contaminated clothing before reuse. Collect spillage.
Storage	Store locked up.

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Disposal	Dispose of contents/container in accordance with local/ regional/national/international regulations.
Hazards(s) not otherwise Classified (HNOC)	None known.
Supplemental information	None

3. Composition/information on ingredients

Mixtures

Chemical name	Common Name	CAS number	%
SODIUM HYDROXIDE (NA(OH))	**1310-73-2**	**50%**	**65-80%**
POTASSIUM HYDROXIDE	**1310-58-3**		**1-15%**

Other components below reportable levels

***Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. First-Aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist**.**
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately;
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most Important Symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed.	Provide general supportive measures and treat symptomatically. chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog.. Foam. Dry chemical powder. Carbon Dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillage cannot be contained. For personal protection see section 8 of the SDS
Methods and material for containment and cleaning up	**Large spills**: Stop the flow of material, if this is without risk. Dike the spilled material where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. **Small Spills:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal see section 13 of SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and Storage

Precautions for safe handling	Provide adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin or on clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS)

8. Exposure controls/personal protection

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Occupational Exposure Limits

US. Osha Table Z-1 Limits for Air Contaminants (29 CFR 19 10, 1000)

Components	Type	Value
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	PEL	2 mg/m3
US. ACGIH Threshold Limit Values components		
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	CEILING	2 mg/m3
US. NIOSH: Pocket Guide to Chemical Hazards		
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-58-3)	CEILING	2 mg/m3
POTASSIUM HYDROXIDE		
	OSHA PEL	2 mg/m3 CEILING
	ACGIH TLV	2 mg/m3 CEILING

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptance level. Eye wash facilities and emergency shower must be available when handing this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment**.**

Thermal hazards Wear appropriate thermal protective clothing when necessary.

General Hygiene Considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants**.**

9. Physical and chemical properties

Appearance:

Physical state Liquid

Form Liquid

Color Colorless to slightly colored

Odor ODORLESS

Odor threshold Not available

pH Not available

Melting point/freezing point 56 ^{0}F (-13.33 ^{0}C)

Initial boiling point and boiling range 1371.2^{0}F (744 ^{0}C) estimated

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Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive Limits	
Flammability limit – lower (%)	Not available
Flammability limit – upper (%)	Not available
Explosive limit – lower (%)	Not available
Explosive limit – upper (%)	Not available
Vapor Pressure	0.33 hPa estimated
Vapor density	Not available
Relative density	Not available
Solubility(ies)	
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Density	12.82 lbs/gal
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing
Percent volatile	50 % estimated
Specific gravity	1.54

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong acids
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure	
Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.
Eye contact	Causes severe eye damage.
Ingestion	Causes digestive tract burns.
Symptoms related to the physical, chemical and toxicological characteristics.	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity **Harmful if swallowed**

Potassium Hydroxide CAS 1310-58-3

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Acute		
Oral		
LD50	Rat	273 MG/KG (rat)

*Estimates for product may be based on additional component data not shown

Skin corrosion/irritation Causes severe skin burns and eye damage

Serious eye damage/ eye irritation Causes serious eye damage

Respiratory or skin sensitization Not a respiratory sensitizer

Skin Sensitization This product is not expected to cause skin sensitization

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or gentoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH,NTP or Osha

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity single exposure Not classified

Specific target organ toxicity repeated exposure Not classified

Aspiration hazard Not an aspiration hazard

Chronic Effects Prolonged inhalation may be harmful

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components	**Species**	**Test Results**
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)		
Aquatic		
Crustacea	EC50 Water flea (Ceriodaphnia dubia**)**	34.59-47.13 mg/l, 48 hours
Fish	LC50 Western mosquito fish (Gambusia affinis)	125/mg/l, 96 hours

*Estimates for product may be based on additional component data not shown

POTASSIUM HYDROXIDE (CAS 1310-58-3)		
	LC50 Mosquito Fish	80 mg/l,/96 hours

Persistence and degradability No data is available on the degradability of this product

Bioaccumulative potential No data is available

Mobility in soil No data is available

Other adverse effects No other adverse environmental effects(e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component

13. Disposal Considerations

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Disposal Instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents/container in accordance with local/ regional/national/international regulations.
Local disposal instructions	Dispose in accordance with all applicable regulations
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues/unused product	Dispose of in accordance with local regulations. Empty containers or liners may contain some product residues. This material and it's container must be disposed of in a safe manner(see : Disposal Instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after the container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN1824
UN proper shipping name	SODIUM HYDROXIDE SOLUTION
Transport hazard class(es)	
Class	8
Subsidiary Risk	-
Packing Group	II
Special precautions for user	Read safety instructions,SDS and emergency procedures before handling
ERG number	154

DOT information on packaging may be different from that listed.

DOT



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2) Listed

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	**Immediate Hazard - Yes**
	Delayed Hazard – No

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Fire Hazard – No
Pressure Hazard- No
Reactivity Hazard- No

SARA 302 Extremely hazardous substance
Not listed

SARA 311/312 Hazardous Chemical **No**

SARA 313 (TRI reporting) Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated **Clean Air Act (CAA) Section 112 (r) Accidental Release Prevention (40 CFR 68.130)**
Not regulated

Safe Drinking Water Act (SDWA) Not regulated

US State Regulations

US. California Controlled Substances. CA Departement of Justice(California Health and Safety Code Section 11100)
Not listed

US. California, Candidate Chemicals List. Safer Consumer Products Regualtions(Cal. Code REgs, tit, 22,69502.3,subd.(a)) SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. Massachusetts RTK – Substance List
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. New Jersey Worker and Community Right-to Know Act
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. Pennsylvania Worker and Community Right-to Know Law
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. Rhode Island RTK
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986(Proposition 65) : This material is not known to Contain any chemicals currently listed as carcinogens or reproductive toxins.

Internationa Inventories

Country(s) or region	Inventory Name	On Inventory (yes/no)
Australia	Australian Inventory of Chemical Substances **(**AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non- Domestic Substances List (NDSL)	No
China	Inventory of existing chemical substances in china (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TCSA) Inventory	Yes

A " Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A " No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s)

16. Other Information **Date Prepared 8-5-15**
Revision Date 8-6-15

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This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warrantyexpress or implied, with respect to such information; and, we assume no liability resulting frits use. Users should make their own investigations to determine the suitability of the information for their particular purposes.